

(12) United States Patent

Sondeen et al.

(54) SYSTEM AND METHOD FOR PROVIDING SERVO-CONTROLLED RESUSCITATION

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See application file for complete search history.

(56)**References Cited**

U.S. PATENT DOCUMENTS

4,392,849 A *	7/1983	Petre et al 604/66
4,467,844 A *	8/1984	Di Gianfilippo et al 141/1
5,584,806 A *	12/1996	Amano 604/65
5,827,219 A *	10/1998	Uber et al 604/30
2002/0038392 A1*	3/2002	De La Huerga 710/8

^{*} cited by examiner

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(57)ABSTRACT

The present invention provides a system and method for controlling resuscitation in a patient. In at least one embodiment, the invention includes a fluid rate measurer, a controller electrically coupled to the fluid rate measurer, and a pump. The controller is adapted to receive signals from a physiological monitor and controls the pump.

18 Claims, 9 Drawing Sheets

